MAR COR PURIFICATION
A Cantel Medical Company

4400C Series RO

Reverse Osmosis System 60 Hz 4,000 to 24,000 GPD

The Biolab 4400C Series Reverse Osmosis Systems are designed to produce up to 17 USgpm (3.86 m^3/h) of pure water. The 4400C Series provides high quality product water, user-friendly controls, durable construction, and easy installation. All systems are built to exacting standards under ISO 9001:2000.

Operating Parameters

- Operating Pressure: 250 psig (1724 KPA)
- Maximum Recovery: 75%
- Nominal Rejection: 95-99%
- Operating Temperature: 2-35° C (35-95° F)
- Minimum Inlet Pressure: 30 psig (210 KPA)
- Design Temperature: 25° C (77° F)

Materials of Construction

- Frame: Powder coated steel
- Membrane Elements: TF Polyamide
- Membrane Housing: Stainless Steel
- Low Pressure Pipe: Sch. 80 PVC
- High Pressure Pipe: Stainless Steel
- Control Enclosure: NEMA 4/12
- Pump: Stainless Steel

Typical Medical Applications

- Commercial Applications
- Clean Sterilize Reuse (CSR)
- Central Laboratory
- Boiler feed water
- Humidification systems
- Process ingredient water
- Rinse water
- Ion exchange pre-treatment

Standard Features

- 1.0 - micron graded density pre-filter
- Automatic inlet shut-off valve
- Multi-stage 316SS centrifugal pump, TEFC
- Three variable flow meters
- Stainless steel pressure gauges
- Programmable auto-flush feature
- Digital system control
- Adjustable reject recirculation
- Clean-In-Place valving
- Automatic permeate divert system add-on
- Up to 75% recovery

4400C 60 Hz Specifications @ 25°C

Model Number	Stock Number	Permeate gpm (lpm)	Concentrate gpm (lpm)	Motor hp	Elements Number	Inlet in (mm)	Permeate in (mm)	Concentrate in (mm)	Weight lbs (kg)
4400C-4K	22C16B-2RO	2.8 (10.6)	0.8 (3.02)	2.0	2	3/4 (1.91)	1/2 (1.27)	1/2 (1.27)	438 (199)
4400C-6K	32C16B-2RO	4.2 (15.9)	1.3 (4.92)	3.0	3	3/4 (1.91)	1/2 (1.27)	1/2 (1.27)	481 (218)
4400C-8K	42C16B-2RO	5.6 (21.2)	1.8 (6.81)	3.0	4	3/4 (1.91)	3/4 (1.91)	3/4 (1.91)	506 (230)
4400C-10K	52C16B-2RO	6.9 (26.1)	2.3 (8.71)	5.0	5	3/4 (1.91)	3/4 (1.91)	3/4 (1.91)	593 (269)
4400C-12K	62C16B-2RO	8.3 (31.4)	2.8 (10.6)	5.0	6	1 1/2 (3.81)	3/4 (1.91)	3/4 (1.91)	627 (284)
4400C-14K	72C16B-2RO	9.5 (36)	3.2 (12.1)	5.0	7	1 1/2 (3.81)	3/4 (1.91)	3/4 (1.91)	661 (300)
4400C-16K	82C16B-2RO	11 (41.6)	3.7 (14)	5.0	8	1 1/2 (3.81)	1 (2.54)	1 (2.54)	721 (327)
4400C-18K	92C16B-2RO	12.5 (47.3)	4.2 (15.9)	7.5	9	1 1/2 (3.81)	1 (2.54)	1 (2.54)	764 (347)
4400C-20K	102C16B-2RO	14 (53)	4.7 (17.8)	7.5	10	1 1/2 (3.81)	1 (2.54)	1 (2.54)	783 (355)
4400C-24K	122C16B-2RO	17 (64.4)	5.7 (21.6)	7.5	12	1 1/2 (3.81)	1 (2.54)	1 (2.54)	832 (377)

Note: All weights and dimensions are approximate.

Feed Water Requirements*

	Common Specifications
Feed Water Source	Potable Tap
Maximum Silt Density Index	<3
Maximum Free Chlorine	<0.1 ppm
Operating Temperature Range	2-35°C
	(35-95°F)
Operating pH Range	2-11
Total Dissolved Solids	<1,000 ppm
Softened or Langelier Index	<0.5
Iron / Manganese	<0.1 ppm

*If any of the feed water requirements are not within the limits given, consult one of our application specialists for assistance.

System Dimensions

77.5" high x 38" wide x 29" deep.

Standard Product Ordering Information

Biolab 4400C RO Stock Number Matrix

12 2 C 1 6 B - 2 RO

Number of RO Elements
2 3 4 5 6 7 8 9 10 12

Membrane Type
2 - Thin Film Composite

Application Type
C - Commercial & Industrial

Housing Type
1 - 304 SS

Electrical Requirements
2 - 230/1/60 5 - 115/1/60 8 - 460/3/60
3 - 380/3/50* 6 - 208/3/60 9 - 575/3/80
4 - 420/3/50* 7 - 230/3/60

Pump Type
B - 316SS*[1]

Panel Options
2 - Digital with conductivity 3 - PLC controller

Unit Type
RO - Reverse Osmosis Systems

* Pump horse power will change

Installation Considerations

- For proper serviceability, there should be 18" of space around the system. This includes front, back, and sides.
- The system should be installed on a firm, level surface and have a drain with suitable capability to handle concentrate.
- Minimum dynamic operating pressure of 30 psig is required for proper system operation. The max pressure is 90 psig.

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